



## Ni 80 Cr20 Nichrome Wire Resistance Alloy Heating Wire For Heater Coils

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Victory
- Certification: CE
- Model Number: Cr20Ni90
- Minimum Order Quantity: 5
- Packaging Details: Spool package with Carton box, Coil package with polybag for Resistance wire
- Delivery Time: 5-21 days
- Payment Terms: L/C, T/T, Western Union, MoneyGram
- Supply Ability: 300 tons per month



### Product Specification

- Max. Continuous Service Temp. Of Element(°C): 1200
- Melting Point: 1400
- Resistivity: --
- Density(g/cm3): 8.7
- Elongation At Rupture: ≥20
- T.S.(MPa): ≥490
- Highlight: Heating Nichrome 90 Resistance Wire, Nichrome 90 Resistance Wire, Cr10Ni90 nichrome 90 wire



### More Images



### Product Description

#### NiCr Series

Nickel-chromium, nickel, and ferrochrome alloy wire possess excellent electric high-temperature oxidation resistance, high strength, and do not soften easily. These wires offer a series of advantages that make them highly desirable for use in various applications. Even after prolonged use, the same type of wire exhibits very minimal permanent elongation, making it an ideal choice for electric components that require high-quality and reliable performance.

The Cr10Ni90 alloy is a particular type of nickel-chromium wire that stands out for its exceptional comprehensive properties. It is widely used in the production of high-quality electric components due to its superior strength and resistance to oxidation even under high temperatures. This alloy wire is an excellent choice for applications that require reliable performance and durability.

Our Product Introduction

Overall, nickel-chromium, nickel, and ferrochrome alloy wires are highly versatile and offer a range of benefits that make them ideal for use in various industries. Their exceptional properties make them a top choice for electric components that require high-quality and reliable performance, making them an essential material in modern manufacturing processes.

**Size dimension range:**

**Wire:** 0.01-10mm

**Ribbons:** 0.05\*0.2-2.0\*6.0mm

**Strip:** 0.05\*5.0-5.0\*250mm

**NiCr series:** Cr20Ni80, Cr30Ni70, Cr15Ni60, Cr20Ni35, Cr20Ni30

Performance material		Cr10Ni90	Cr20Ni80	Cr30Ni70	Cr15Ni60	Cr20Ni35	C
Composition	Ni	90	Rest	Rest	55.0~61.0	34.0~37.0	30
	Cr	10	20.0~23.0	28.0~31.0	15.0~18.0	18.0~21.0	18
	Fe		≤1.0	≤1.0	Rest	Rest	18
Maximum temperature °C		1300	1200	1250	1150	1100	11
Melting point °C		1400	1400	1380	1390	1390	13
Density g/cm3		8.7	8.4	8.1	8.2	7.9	7.9
Resistivity at 20°C(μΩ·m)			1.09±0.05	1.18±0.05	1.12±0.05	1.00±0.05	1.0
Elongation at rupture		≥20	≥20	≥20	≥20	≥20	≥20
Specific heat							
J/g.°C			0.44	0.461	0.494	0.5	0.5
Thermal conductivity							
KJ/m.h°C			60.3	45.2	45.2	43.8	43.8
Coefficient of lines expansion							
α×10-6/			18	17	17	19	19
(20~1000°C)							
Micrographic structure			Austenite	Austenite	Austenite	Austenite	A
Magnetic properties			Non-magnetic	Non-magnetic	Non-magnetic	Weak magnetic	W
Micrographic structure		Ferrite	Ferrite	Ferrite	Ferrite	Ferrite	F
Magnetic properties		Magnetic	Magnetic	Magnetic	Magnetic	Magnetic	M

Form	Specification	
Wire	Diameter=0.025mm~8mm	
Flat wire	Width=0.40~6.0mm	Thick=0.03~0.50mm
Strip	width=8~250mm	Thick=0.05~3.0mm
Bar	Diameter=8~100mm	Long=50~1000



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